## INTERNATIONAL SEARCH REPORT

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International application No.

PCT/JP2004/017478 CLASSIFICATION OF SUBJECT MATTER Int.Cl<sup>7</sup> G01N15/08, B01D46/42, F01N3/00, F01N3/02 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.C1' G01N15/08, B01D46/42, F01N3/00, F01N3/02 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Jitsuyo Shinan Toroku Koho 1996-2005 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category\* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Α JP 3372097 B2 (Japan Tobacco Inc.), 1-5 22 November, 2002 (22.11.02), Par. Nos. [0006] to [0010]; Fig. 1 (Family: none) JP 61-14984 A (Societe Nationale Α 1-5 d'Exploitation Industrielle des Tabacs et Allumettes), 08 July, 1986 (08.07.86), Page 6, upper left column, line 9 to upper right column, line 16; Fig. 3 & EP 0187089 A1 & US 4651557 A A JP 09-085386 A (Daido Steel Co., Ltd.), 31 March, 1997 (31.03.97), Par. No. [0040]; Fig. 4 (Family: none) Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international document of particular relevance; the claimed invention cannot be filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other document of particular relevance; the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is "O" document referring to an oral disclosure, use, exhibition or other means combined with one or more other such documents, such combination document published prior to the international filing date but later than the being obvious to a person skilled in the art priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 25 January, 2005 (25.01.05) 15 February, 2005 (15.02.05) Name and mailing address of the ISA/ Authorized officer Japanese Patent Office

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(Continuation	). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passa	ges Relevant to claim No
A	JP 07-037932 B2 (Japan Tobacco Inc.), 26 April, 1995 (26.04.95), Column 3, lines 5 to 43; Figs. 8, 9 & US 4912964 A	5
А	JP 10-090160 A (Shinagawa Refractories Co., Ltd.), 10 April, 1998 (10.04.98), Par. No. [0016]; Fig. 1 (Family: none)	5 .
Α	3294589 JP <del>3372097</del> B2 (Shibata Kagaku Kabushiki Kaisha), 05 April, 2002 (05.04.02), Par. Nos. [0028] to [0034]; Fig. 1 (Family: none)	1-5
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